JANUARY BULLETIN 1971
VOL. 2 SAN ANTONIO RADIO CLUB NO.2

President--Floyd Roland, W5JKU
Vice President--Gene Jank, W5EJT
Secretary--Bill Ross, K5LLK
Treasurer--Frank Box WA5VFM
Sargeant-at-arms--Dan DeLay, W5DUI

Meets first and third Fridays at 7:30 p.m. at the Red Cross Building, 90 Brees St. All who have an INTEREST in amateur radio are cordially invited to attend.

Bulletin Editor, Dean Davis, W5BGE. Published Bi-monthly (hopefully!)
Typist, Maybelle Davis, XYL-W5BGE.

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PREZ' KORN-ER

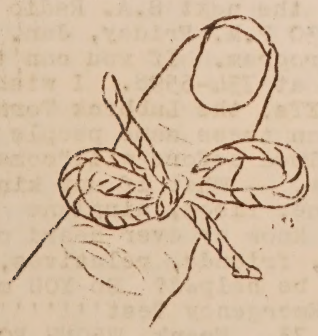
by W5JKU

The San Antonio Radio Club starts the new year by meeting at a new meeting place. The new meeting place is at the Red Cross Headquarters and the first meeting of the year is Friday, January 15. Frank Gerwitz, W5QMH, Emergency Coordinator, will have charge of the program for this meeting. He will make us welcome and explain the operation of W5SC in relation with the Red Cross.

We would like to express our sincere thanks and appreciation to Martin Esser, Director of the San Antonio Civil Defense and his personnel for their help in allowing us to meet at CD headquarters for this past year.

One of the interesting things about amateur radio is the variety and freedom of interests within the hobby; for example traffic handling, DX, Rag chewing, CW, SSB, FM, UHF,VHF, experimenting. To have this freedom and privilege we must accept the responsibilities. The prime consideration of the FCC in authorizing a radio service is its public service. The commercials have consultants to represent them and keep them informed. How does the amateur establish his position? He keeps informed by attending club meetings and by the many publications and bulletins (SCM, Lee Ulrey, K5HZR, needs some help in establishing some bulletin stations in this area). He makes constructive suggestions to his director, Roy Albright, W5EYB. (The ARRL exists because of the amateur, and expresses the opinion of the majority if the majority will express themselves.) He documents his activities by records and reports to the SCM. He works with the emergency services and the EC. He provides community services, (by the way, we need help on Sunday at the Jewish Center!). He is willing to help train new hams--so that we can have a group of communicators and technicians in time of national emergency. This will also cause amateur radio to have the healthy growth it needs to prosper.

We must always be diligent in accepting our responsibilities so that we will not lost our privileges. The club appears to be accepting its responsibilities quite well. This bulletin, for instance, is hard work by the publications committee with articles and information from the local hams. Code and Theory classes are soon to start. The preparing and presenting of programs is a big task, (our thanks to those who helped in the past and in the future.) The Club is privileged to have among its members an ARRL Director, a SCM, and an EC, who put in many long hours of hard work. It is the individual's responsibility to back them all. It appears to me that when the membership approves action by the Club, they are saying, "I will gladly help!" 'Nough said--so 73 for the new year. Floyd, W5JKU



R E M I N D E R . . . . . .

FIRST MEETING OF THE YEAR

FRIDAY, JANUARY 15, 1971

N E W P L A C E:

RED CROSS BUILDING

90 BREES BOULEVARD

SET: SCM's VIEWS

by K5HZR

Simulated Emergency Test January 30-31, 1971. Amateur radio exists because it qualifies as a service. It's that time of year again. This event used to occur in early October, but for the last few years has been scheduled for the last part of January because the Baseball World Series usually fell on the date in October. I have always contended that the SET should be held at any time the Emergency Coordinator thought one was necessary; unplanned, so as to make it a true test of the Emergency Communications Plan and the INDIVIDUAL OPERATOR'S skill and ingenuity. Advance information regarding this year's SET has been in the hands of your EC Route Manager, NTS officials and PAMs for some time now.

Here are some of the means by which points are scored by each local AREC group: 1 point is scored for each licensed amateur in the local area who holds either a properly endorsed AREC registration card or a valid RACES Operator Permit (whether he participated in the SET or not). 2 points are scored for each licensed amateur in the local area who participated in the local SET. 1 point is scored for each message originated to the SEC or State RO by participating stations. (the SEC for Southern Texas Section is Mr. James K. Freeman, K5HXR, 10202 Aves, Houston, Texas 77034. Your message doesn't count unless it is in proper format. Do your homework now.) 5 points for each self powered mobile unit or self powered portable unit participating in the SET. 5 points for each fixed station which operated from an emergency power source throughout the local SET.

Are you an AREC member in good standing? If not, contact your EC. For those in Bexar County, your EC is Frank Gerwitz, W5QMH at 734-5598. Emergency Coordinators should utilize the NTS Nets for their long haul traffic and assign liaison stations accordingly. For Southern Texas Section the Nets are: Tex CW on 3770khz, TTN on 3961khz, STEN on 3955 khz, and WGEN on 3945khz. Let's make this year's SET one to remember.

73. Lee, K5HZR SCM

SET: EC's VIEWS

by W5QMH

One of the Simulated Emergency Test's chief purposes is to serve as a training medium for amateurs under conditions as nearly those that might be encountered in an actual emergency as possible. Usually the traffic hounds show up in great numbers. It's the Dxers, ragchewers, experimenters, etc., that need encouragement to participate in the test. When an actual emergency arises, all hams should help. Those who have helped with SET are more effective in serving the community. The SET begins at 2 P.M. on Saturday 30 January. Volunteers will be needed at Red Cross Hq. on Brees Ave. and at the Weather Bureau. Anyone who has a mobile or portable rig can be a great help and we get extra points for this type of operation. If you wish to participate from home, all you have to do is check in with W5SC/5 on a net frequency--3960 or 7290, and originate two messages, one to the SEC, and the second can be to a friend in a distant state. The SEC's name and address is in Lee's article You don't have to be an ARRL member to help. Every ham interested in helping with SET or with any emergency should become a member of the Amateur Radio Emergency Corps. The only qualification is a sincere desire to serve. To join, contact me, Frank, W5QMH.

Regardless of how you can help, please come to the next S.A. Radio Club meeting at Red Cross, 90 Brees Ave. at 7:30 P.M. Friday, Jan. 15, SET will be one of the topics covered on the program. If you can't come to the meeting, but wish to help--call me at 734-5598. I wish to thank those who have helped in the past with SETs, the Lubbock Tornado, the Corpus Christi Hurricane. I rely heavily on these same people again this year. I hope many who have never helped before will "come out of the woodwork", so to speak, and help now. -- What if any kind of disaster arises, such as a tornado, hurricane, flood, airplane crash, bomb explosion--but never to anyone you know or ever heard of--so you don't help. Then, when it IS your home, friends, relatives, or city that's wiped out, how could YOU expect to be helped? So YOU must PLAN NOW to be a VITAL PART of this Simulated Emergency Test!!!!!!!!!!

73. Frank, W5QMH EC.

PARTY REPORT

by W5BGE

The annual Christmas dinner-dance of the SARC was held Saturday, Dec. 11 at Strange's Party House with 109 in attendance, including 2 from Houston, 2 from Fort Worth, 4 from Corpus Christi, 4 from Seguin, 2 from New Braunfels and 2 from Austin.

A short business meeting followed the dinner MC'd by Club President Floyd Roland W5JKC. Roy Albright W5EYB, West Gulf Division ARRL Director spoke to the group. Lee Ulrey K5HZR, the new South Texas Section Communication Manager also made a short talk and presented Carl Braunstein WA5DQG a certificate of merit for his work in the spring code and theory class. Vice President Gene Jank, in charge of the program, introduced Frank Jordon W5EDX, who showed films of SA amateur activity in the late 40's and early 50's. Dancing and ragchewing followed until 1 a.m.

Rose and Monte Montemayor W5JKC, ex SAers, traveled from Houston to make the party again. Other out of town visitors were: From Fort Worth Cleo and C. I. Carpenter W5QFL, from Corpus Christi, Peggy and Thad Johnson W5IRQ (ex pres of SARC) and Elizabeth and Dave Cadena W5FAR; from Seguin, Susan WA5UFL and Marvin W5FFG Soefje, Dottie and Frank Jones WA5ZVO; from New Braunfels, Bob and Sidney Clark; from Austin, Susan and John Thompson WB5BGV (ex sec of SARC). The local chapter of the Quarter Century Wireless Association was well represented. Among those who attended were: W5ABQ, W5BE, W5BGE, W5DCP, W5DUI, W5DWX, W5EDX, W5EJT, W5EYB, W5FA, W5FFA, W5FKR, W5HIV, W5JKC, W5KJ, W5KQG, W5LPO and W5PEK. (W5KQG Frances Bruemmer is the lone XYL member of the local chapter).

The San Antonio Repeater Organization also was well represented. Among those who attended were: W5DUI, W5EJT, K5HZR, W5LVE, W5PEK, W5QMH, W5QMU, W5PKK, WA5WON, WA5KBQ, W5LFG, and W5BGE. The visitors included: Dolly and Walter Tilleman K5IDD (SoundCom Electronics): Polly WAØKPO and Red KØRAJ Davidson, Allen and Lou Durst; Bryan Ross and Mrs. J. Ross (guests of K5LLK);Neline and Theo Jett W5OZQ; Leona and Cole Crump W5DEK; Judy and Harry Crouse W5KCR; Jo and John Hunt W5DKK; Leola and George Loos W5LFG; Katherine and Derwin King W5LUU; Avelina Reyna (guest of W5PKK); Wynn Borches W5JBI; Tex and Xyl Kennedy W5QDB; Ann and Larry Kunz WA5KBQ. Lou Durst won the ladies door prize, a hostess candle. Bill Ross K5LLK received the mens door prize, a Weller soldering station. Incidentally he helped to select this prize--nice to win something you need!!.

The cost of the party, which includes Strange's Party House, orchestra, door prizes and decorations was $797.44. Total collected for ticket sales, $616. Cost to SARC $181.44.

Our thanks to the committee who worked on ticket sales and decorations, they include: WA5RNV, W5ETG, K5HZR, W5KQG, W5LVE, W5EJT, K5OPT, W5EYB, W5LPO, and W5JKU. Again this year Frances Bruemmer W5KQG was the CHAMPION ticket seller--26, if she would not have had to go to the hospital she could have sold more! The decorations were appropriately done by Hazel Albright, Peggy DeLay WA5GZO and Maybelle Davis.

Everyone seemed to have a good time, plenty to eat and the music was good. Again our appreciation to all who worked on the party.

73 Dean W5BGE
Chairman of Arrangements

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SAN ANTONIO RADIO CLUB MEMBERSHIP

(Add the following names to your roster of active club members)

DICKSON,	Howell	W5FKR	434 Driftwind		655-5795
HACKETT,	Robert	W5EPL	1931 Steves	78210	533-5205
HYATT,	Maurice	W5NHK	622 Karen Lane	78218	
JORDON,	Frank	W5EDX	2334 W. Mulberry	78201	733-8978
MANN,	Tom	WA5SCB	157 Brooks Parkway	78214	924-4619
MEYERS,	Harry	WA5BZR	Rt. 1, Box 741, Adkins,Tx.	78101	647-2990
MORGAN,	Jerry	W5ABQ	1823 French	78201	735-0407
PIPPIN,	John	WN5BST	PO Box 871	78206	732-3962
SKILES,	Jack	WN5CQR	250 Pinewood	78218	826-3079
SCHNEIDER,	Laura		Rte. 15, Box 196E	78228	695-3391

VHF - FM CONVENTION - FEB. 27-28-29

LOCATION: El Tropicano Motor Hotel

FRIDAY: General Registration Friday afternoon and evening

SATURDAY: 0900 hours - Tech talks all day - Some general sugjects: Tex Kenedy, UHF Repeaters; Floyd Roland, Basic FM Theory Some discussion on interlinks and frequency coordination- Around the hotel will be frequency measuring and deviation by use of the Cushman equipment operated by the Cushman representative.

SAT. NIGHT: Everybody will be invited to a dinner and social.

SUNDAY: 0900 hours - Society business meeting - Drawing for atter dance, door prizes, etc. - Convention should be over not later than 1300 hours Sunday.

LADIES: There will be social get-togethers, coffeys, shopping trips, Zoo, historic tour of San Antonio, trip up the San Antonio River, etc.

FOR ADDITIONAL INFORMATION, contact Bob Wheaton W5PKK, Rt. 2, Box 324-D, phone 695-8430, Convention Chairman.
C U there. Jack WA5VZV.

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The San Antonio Repeater Organization quarterly meeting was held Jan. 4 at McArthur Park. An election of officers resulting in reelecting the present officers -- Larry Higgins W5QMU, president, Terry Turner W5ETC vice president, M. D. Harris K5PKX, treasurer, and Jack Johnson WA5VZV Secretary. A discussion on the operation of the fone patch resulting in assignment of several power supplies to be built and a general plan for the fone patch layout was adopted. Arrangements for the use of a 200 ft. tower at Seguin was adopted, to be used as a 2 m backup and for the 6 m repeater. Dan W5YOY and Larry WA5KBQ are working on the 6 m repeater. Bob Wheaton W5PKK, Chairman of the VHF-FM Convention was out of town.

Dean, W5BGE

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LETTER TO THE EDITOR

RE: FIELD DAY

I'm writing to tell you that field day is just around the corner and preparations must be made to meet that day. As everyone knows, last year's field day was a big success, and hopefully this year's will be too. I have talked it over with Frank Gerwitz W5QMH (chairman) and we have decided that now is the time to start telling our plans. We need your and everyone's support.

As everyone knows, you must have a place to hold such a big event. Several places are being discussed, the one place that is holding the most votes is the Northeast Preserve, where the event was held last year. There are other places in mind and they will not be overlooked.

Should anyone have a suggestion, please tell Frank Gerwitz. We will have a place to hold it, though, and if we do not pick your favorite place, do not be upset, you might be there next year. Just because we pick a place does not mean that you have to be at that certain place t DX or otherwise on that date. Hopefully we will all agree with the chosen spot.

Since last year's Field Day was a success, we hope to see all those people who were there last year back again, and we also hope to see a lot of new faces. I was not there last year but I will be there this year.

Should anyone have a suggestion to the event please tell Frank Gerwitz Joe Gallegher, or me. We will appreciate it deeply. Also please tell Frank if you plan to be there and if so what time you can come. I hop to see everyone there. Help make this Field Day a success. 73.

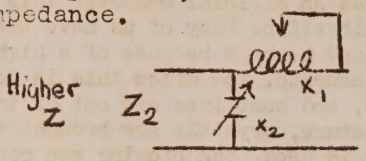
Sincerely,
John R. Henderson

(Ed. Note: This high school student, a member of SARC, studying for his novice, already working on a club committee, is showing us O.T's what real enthusiasm is!!. Let's back him - come June 27-28!!)

L NETWORK

By W5JKU

It sometimes becomes necessary to match a transmission line to an antenna or transmitter to line; in fact if one is observant he might look at a pi or T networks made up of two L networks. The network works thru the property that an impedance at one frequency can be looked at as a resistance in series with a reactance or the two elements in parallel, (values not equal). If we series an opposite reactance we get a low impedance, and if we parallel an opposite reactance we get a high impedance.



$$\frac{X_1}{Z_1} = \frac{Z_2}{X_2} = Q$$

$$X_1 = 2\pi f L$$

$$X_2 = \frac{1}{2\pi f c}$$

$$Q = \sqrt{\frac{Z_2}{Z_1} - 1}$$

$$\text{Bandwidth} = \frac{f}{Q}$$

(True when Z is pure resistance.)

A practical circuit (usable between 3.5 Mhz to 30 Mhz) is a 400 pfd. variable capacitor as the shunt reactance and a variable inductor as the series reactance (30 mh from a BC 375 transmitter). Using a SWR meter to tell you when you have 50 ohms you adjust the reactances, usually the output first. Use the L in either direction. The lower impedance terminals are on the series reactance end. 73. Floyd W5JKU.

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SPLATTER

By W5BGE

On Dec. 12 Bob Eisenman WA5ICH suffered a heart attack while working on his tower. Chuck K5AIU was with him and helped him off the tower and to the hospital. Bob is home now and doing well but it will be quite some time before he will be able to go back to work.....Speaking of towers, Bill Ross K5LLK lost his (70 ft.) in a recent high wind--broke at the 30 ft. level and messed up two beams.....John WB5BGV (wife Susan) Thompson is now operating from Austin at 440 Ridgewood Rd. 78746. He is now with the SWBell fone co. in the Marketing division. SARC sure lost a good sec. when he left.....Frances Bruemmer W5KQG was in the hospital the first part of Dec.,doing fine now but says that she may have to go back later on this month.....Peggy WA5GZQ has been busy during the holidays putting together a Heathkit SB-102 Santa Clause (Dan W5DUI) brought her. Really doing a fine job so far, so watch out for her soon on the ham bands!.....Santa Clause brought George W5VPQ a a new Nikkormat camera to play with.....Terry W5ETG now growing long sideburns and longer hair to impress those pretty coeds over at San Antonio College, which he is attending full time. If you would like to see him "BEFORE" just turn to page 64 Jan.QST.Leonard K5IEG and Frank W5QMH are in the picture also--incidentally W5SC got quite a bit of publicity in the article on Celia.....When Ivan WA5RNV goes hunting he really goes all out!! On a recent trip to S. Tex. he not only got his limit of deer but also turkeys, javalinas and fish (yes, he went fishing in the middle of the day). You should also see him sporting those new Xmas wide-track ties that Santa brought him.....Bill Parry 5TSR has accepted an ARRL appointment as an Official Observer..... Army W5FA is helping the widow of "Pop" W5VLU, Sweetwater, who recently joined the ranks of theSilent Keys, sell his Collins equipment--75S1 w/ps 30L1 amplifier, 75S1 receiver, Collins speaker, Collins mike --$900 FOB Sweetwater--if interested, call Army at 344-4303.....Gene W5ETG and Ruth K5OPT are busily planning another trip to Europe this spring.....Bob W5PKK was heard last week using XE1WWW's station sending a message to Bob WA5WON thru Lee K5HZR on the 7290 net--QTH about 70 miles from Mexico City.....The Dec. 27. SA Light carried a picture and story of 2 brothers, David, 11 and Edmund, 13--sons of Jesse Rodriquez WA5JTV, reporting they had just received their Novice licenses. Edmund's call letters are WN5CEP and David's are WN5CEO. They attended SARC last code and theory class. Their mother, Theresa, commented: "I'm proud of my boys. It will keep them occupied. This will provide them with the vehicle to exchange ideas with other young people."--We wonder if David, 11, is the youngest Novice in the SA area?.....Katharine Pirie K5TSZ is recuperating wonderfully after major surgery..... Novice Roundup will be held Feb. 6 thru 21. 73. Dean W5BGE.

ARRL ARRL FROM THE DIRECTOR ARRL ARRL

FREQUENCY MEASURING TESTS SOON

WLAW will transmit frequency measuring tests on February 13 at 8:30 p.m. CST, on approximately 3524, 7011 and 14068 Kc. A second series will be transmitted that same evening at 11:30 p.m. on about 3525, 7023 and 14098 Kc. Mark your calendar for the date. Hang onto your results. WLAW will transmit official umpire readings on 26 February and in a subsequent issue of QST.

Even tho' you do not plan to attempt to qualify as an official observer this is an excellent opportunity to check your receiver calibration. Many of us have the belief that because our Rx has a 100Kc calibrator, and perhaps because of a high opinion of the manufacturer, that our dial is 100% accurate. Too often this is not quite correct. Crystals and circuit components age, and sometimes are out of tolerance, even on new equipment. Also, during manufacture, crystals are brought to frequency by etching. unless an effective stop bath is used, the etching may continue for an indeterminate period, thus changing the xtal frequency. Of course we should periodically check our calibrator, and calibration, against WWV, but not all receivers have that capability.

At any rate, here is an opportunity to insure your dial calibration will keep those pink tickets and OO reports out of your mail box - and it may give you a big surprise!

WRITING FOR PUBLICATION

Acquisition of information for publication, particularly articles of technical interest, is a difficult problem for any editor. Although we have a comfortable backlog, QST is no exception. Some magazines pay authors for their articles, often according to the number of words used. Naturally this has a tendency to encourage redundancy. Many authors have found that the prestige gained by having their work published in high caliber engineering journals, and QST, is worth more than the few dollars others might pay.

The alert technical editor will, of course, take advantage of every opportunity to increase his supply of material suitable for publication. Sometimes this can be a two way street. For example, the League gives support to the Talcott Mountain Science Center and to AMSAT. In return, QST gains information for publication from the work of these organizations. Recently, VHF editor Tilton is reputed to have contracted with a ham club in Colorado to construct a VHF-FM Repeater, using parts furnished by the League. In return, that group is to provide a series of articles on the subject of Repeater design and construction, for publication.

Many of us are in a position to provide interesting technical information to amateurs by offering it for publication, but, unfortunately too often we fail to put it on paper and send it in. The reason is obvious. Writing for publication is a very complex task and requires specialized training.

Lack of writing experience need not be a deterrent. QST has a staff of skilled writers. The technical editor scans all manuscripts submitted and will recognize those which have merit.

So, if you have built a better mousetrap, write about it to the best of your ability and mail your brainchild to QST. Let Doug DeMaw worry about putting it into proper phraseology for publication. Let not your light be covered by a bushel.

73, ROY L. ALBRIGHT W5EYB DIRECTOR, WEST GULF DIVISION ARRL.

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SAN ANTONIO TX JAN 12 1 PM 1971

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